

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-059462

(43)Date of publication of application : 04.03.1997

(51)Int.Cl.

C08L 25/08
C08L 51/04

(21)Application number : 07-221857

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(22)Date of filing : 30.08.1995

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(54) RUBBER-MODIFIED STYRENE RESIN COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a styrene resin compsn. excellent in impact strength, tensile strength, etc., by dispersing butadiene rubber particles having specified particle sizes, particle size distribution, etc., in a specific styrene-acrylic copolymer.

SOLUTION: A styrene-acrylic copolymer having a residual styrene monomer content of 1,500ppm or lower and a residual 4-vinylcyclohexene content of 1,500ppm or lower is produced by copolymerizing an acrylonitrile monomer and/or a (meth)acrylic ester monomer with a styrenic monomer, etc. A rubber-modified styrene resin compsn. is prepd. by dispersing, in a matrix comprising the styrene-acrylic copolymer, butadiene rubber particles having a number-average particle size of 0.08-0.35 μ m and such a particle size distribution (by number) that particles having sizes of lower than 0.1 μ m, 0.1-0.25 μ m, and higher than 0.25 μ m account for 19.5-99%, 0.5-60%, and 0.5-80%, respectively.